

AMENDMENTS TO THE CLAIMS

1. (original) A portable boat ramp made of components conveniently assembled by a customer-user from an unassembled compactly packaged condition, comprising:

(i) a ladder-style frame comprised of elongated side rails, cross support beams for removable mounting to said rails to hold said rails in spaced apart parallel condition, each said elongated side rail having a termination at one end as a water end and termination at the other end as a shore end,

(ii) at least six hull roller assemblies, each said assembly comprising a bracket for mounting on a side rail of said ladder-style frame, a hull roller axle for mounting by said bracket in a pivotable elevated transverse orientation above a side rail of said ladder-style frame, and two hull rollers for mounting on said axle so that one hull roller is at each end of said axle,

(iii) a water end keel assembly comprised of a water end cross member, a keel roller bracket having bracket ends, a keel roller axle for mounting between said bracket ends, and a keel roller for mounting on said axle, said keel roller having an axial length greater than 6 inches and a diameter at its axial ends that extends radially outward from said bracket ends, and

(iv) a winch assembly mounted on said rails at said shore end.

2. (original) Compactly packaged unassembled components for convenient assembly by a customer-user to form a boat ramp, said components including

(a) components for a ladder-style frame comprised of elongated side rails, and a plurality of cross support beams for removable mounting to said rails so as to hold said rails in spaced apart parallel condition, each said elongated side rail having a termination at one end as a water end and a termination at the other end as a shore end,

(b) components for at least six hull roller assemblies, each said assembly comprising a bracket for mounting on a side rail of said ladder-style frame, a hull roller axle for mounting by said bracket in a pivotable elevated transverse orientation above a side rail of said ladder-style frame, and two hull rollers for mounting on said axle so that one hull roller is at each end of said axle,

(c) components for a water end keel assembly comprised of a water end cross member, a keel roller bracket having bracket ends, a keel roller axle for mounting between said bracket ends, and a keel roller for mounting on said axle, said keel roller having an axial length greater than 6 inches and a diameter at its axial ends that extends

radially outward of said bracket ends, and

(d) components for a shore end winch assembly.

3. (previously added) A boat ramp comprising:

(i) a ladder-style frame having elongated lateral side rails held in spaced apart parallel condition by cross support beams, said spaced apart condition being greater than about one and one-half feet, said rails having a length greater than 10 feet and terminating at one end as a water end and terminating at the other end as a shore end,

(ii) at least six hull roller assemblies mounted on said side rails in laterally paired relationship across from each other and in longitudinally spaced relationship along said rails such that at least three said hull roller assemblies are distributed over the water end half of the length of each said rail, each said assembly having a hull roller axle carrying at each end thereof a hull roller, said hull roller assemblies being so mounted on said rails that their said axles are in pivotable elevated transverse orientation above said rails so as to permit said hull rollers to pivot and rotate according to the contour of the hull of a boat pulled into resting condition thereupon, and

(iii) a shore end winch assembly comprising a winch assembly beam mounted at its inner end on a said cross support beam between said rails at a location inwardly

spaced from said shore end, said winch assembly beam being sloped upward toward said shore end at a low angle of no more than about 45 degrees above the elongated direction of said rails, and a winch supported at an elevated condition proximate to the elevated outer end of said winch assembly beam.

4. (new) A portable boat ramp comprising:

(i) a ladder-style frame consisting essentially of elongated side rails on opposite sides and cross support beams holding said side rails in spaced-apart parallel condition, each said elongated side rail having an upper surface and a termination at one end as a water end and a termination at the other end as a shore end,

(ii) at least four hull roller assemblies mounted so as to project up from the upper surface of each said side rail so as to provide a total of at least eight hull roller assemblies on said frame, each said hull roller assembly comprising a bracket, a hull roller axle and two hull rollers mounted on said axle so that one hull roller is at each end of said axle, each said bracket being formed to have a pair of upstanding ears for pivot mounting of said hull roller axle therebetween so that the hull roller axle extends transversely to said elongated side rails and pivots at an elevated location above said elongated side rails,

said transverse orientation of said axle to said side rails being such as to permit said hull rollers to follow the contour of the hull of a boat as it is pulled into resting condition thereupon, and

(iii) a shore end winch assembly comprising an upstanding beam mounted at its inner end on a said cross support beam between said rails and a winch mounted on said upstanding beam.

5. (new) Compactly packaged unassembled components for convenient assembly by a customer-user to form a boat ramp of the type having a basic structure in the form of a ladder-style frame consisting essentially of elongated side rails on opposite sides and a plurality of cross support beams mounted to said side rails so as to hold said side rails in spaced-apart parallel condition, and wherein each said elongated side rail has a termination at one end as a water end and a termination at the other end as a shore end, said compactly packaged unassembled components comprising

(i) parts for at least six hull roller assemblies, each said assembly comprising a bracket for mounting on a side rail of said ladder-style frame, a hull roller axle for pivot mounting by said bracket so that the hull roller axle extends transversely to said elongated side rails of said ladder-style frame, and two hull rollers for mounting on

said axle so that one hull roller is at each end of said axle, and

(ii) parts for a shore end winch assembly.